

### AMUSEMENTS.

**ENGLISH'S**  
Wednesday and Thursday Evenings  
September 27 and 28,  
**EDWIN MAYO**  
Supported by a select company in  
**MARK TWAIN'S**  
**Pudd'nhead Wilson**  
Prices—\$1.00, 75c, 50c, 25c.  
**SEAT SALE THIS MORNING**

**Grand—10-Night, WEEK**  
Wednesday and Saturday Matinees.  
**GRAND STOCK COMPANY**  
In Nat Goodwin's great comedy success,  
**'The Nominee'**  
Evening Prices—Lower floor, 50c; balcony, 25c.  
gallery, 15c. Matinees, 25c.  
Next Week—Big revival of "East Lynne."  
**PARK—TO-DAY—2 P. M.**

Fitz and Webster's comedians in

## "A Breezy Time"

A musical comedy tuned up to date and enlivened with a line of the newest specialties.

**REGULAR PRICES—10c, 20c, 30c.**

Everybody goes to the Park.

Thursday—"His Better Half."

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## Empire Theatre

Walsh and Delaware Sts.

One Week—Commencing Monday Mat., Sept. 2  
Every Night, Matinee Daily.  
RICE & BARTON'S  
**Gaiety Co.**  
Prices of Admission—30c, 15c, 25c, 50c.  
Next Week—"Wine, Women and Song Co."

truth of his claim, which has so widely discredited him—that he is able to produce seven gallons of liquid air by the power derived from three. The claim is open to this translation: The "Oceanic" can be propelled across the Atlantic by an initial supply of three gallons of liquid air.

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**AN ELECTRICAL FEAT.**

**Bridge Over the Wabash River**  
**Burned Off with Hot Wires.**

Chicago News.

Mention was made a short time ago of a wideawake contractor who utilized a

The electric arc is cut through some heavy machinery located in an awkward position in a building on which the bridge is being altered, says the Philadelphia Record.

This feat has, however, been entirely eclipsed by the work of an Indiana man who employed the heating power of an electric current to wreck a 73-foot bridge with one injury to the bridge.

The preceding interesting fact, described in the Western Electrician, was accomplished last month at Clinton, Ind. It appears that the bridge over the Wabash at this point was up to that time the only one of its kind in the State and the only one that had become antiquated in the county authorities purchased it with

This was apparently a very easy task, but after consultation with bridge builders, house wreckers, riggers, engineers, and, in fact, every one who had any suggestion, the only practical one involved was to build a false work and take the bridge down piecemeal. To blow the bridge up with dynamite would probably injure the pier and to burn it would likewise crack and

The bridge, which was built in 1833, consisted of three spans, with a seventy-foot draw, and, as already mentioned, was 71 feet long. Each of these spans was made of three nine-inch by nine-inch yellow poplar timbers. It is perfectly evident, therefore,

that if each of these timbers was cut through simultaneously the span would drop into the river without injuring the piers.

Current was secured from a near-by generating plant and leading wires were run to the farthest span. Each of the timbers to be cut was next encircled with a heavy resistance wire and connections run to the main circuit. The resistance of these wires was properly adjusted so that the passage of an electric current of definite length would bring them to a cherry red, just on the verge of burning.

As a matter of fact, the principle was the same principle as an incandescent lamp filament is brought to a nearly white heat.

To make the cutting, or, more correctly,

The weight was hung at the bottom of each loop. In exactly one hour and forty minutes after the application of the current each timber was cut through by the ho wire to a point where the weight of the structure was sufficient to break the wire and snap the supporting timbers into the river. This operation was repeated with each span without a hitch or delay of any kind.

An examination after the fall of the bridge showed how thoroughly the current did its work. Each timber was burned through to the same extent, namely, five inches deep on the top and three inches on the sides, the cut being comparatively clean.

the wood not being charred for more than an inch on each side of the point of contact with the hot wire.

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### NIAGARA FALLS.

**The Horseshoe Is Retrograding Four or Five Feet a Year.**

New York Sun.

Recent breaks in the rock edge of the Canadian or Horseshoe fall, over which by far the larger part of the Niagara river waters are precipitated, have tended still further to give the fall a rounded instead of an angular outline. This result of the breaking of the rock has been ob-

served for about ten years and the Horseshoe fall is gradually approaching again the shape that suggested its name. It may be expected, from decade to decade, slightly to change in appearance, and the possibility of any of this fall changing to the position of Horseshoe fall is considerable.

The brink of Niagara Falls was mapped in 1844 by James Hall, who established bench marks that have been connected within the past few years, with the latest surveys. As a result of the points on the comparison of Hall's bench marks with those recently established show that in the middle of the Horseshoe fall the brink retrograding at the rate of four or five

These facts show the futility of the effort some geologists have made to determine approximately the time the Niagara falls fell to cut the gorge. The Niagara falls in Lake Ontario to its present head just as there is a wide difference at present between the rates of retrogression of the American and Horseshoe falls, so the rate of cutting has varied greatly at different times in the past. The erosion has been uniform. The rock bed that is wearing away is not so thick in some places as in others, and the volume of

consequently the force of the water mass has varied largely, for there is some reason to believe that the level of the St. Lawrence, Huron and Michigan has lowered since the river to the St. Lawrence. There is thus a reason to distrust any geologic chronology based upon our modern measurements of the retrogression of Niagara Falls. We now know that the drainage area of the Niagara is about one-thirtieth part of the area of the United States pours over these falls about 25,000 cubic feet in a second. The day is coming when the grandeur of Niagara will vanish, and only a few conventional live and dead forces, the electrical companies now operating

**Loss of Appetite.**  
**Horsford's Acid Phosphate**  
Strengthens the stomach and creates

**a good appetite for food.**  
Genuine bears name Horsford's on wrapper.